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(71) Applicant (for all designated States except US):  
**KVAERNER PULPING AB** [SE/SE]; Box 1033,  
S-651 15 Karlstad (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SNEKKENS, Vidar** [NO/SE]; Herrhagsgatan 62, S-652 19 Karlstad (SE). **SAETHERÅSEN, Jonas** [SE/SE]; Kärängsvägen 37, S-663 42 Hammarö (SE). **GUSTAVSSON, Lennart** [SE/SE]; Renvallsvägen 38, S-653 50 Karlstad (SE). **RAGNAR, Martin** [SE/SE]; Malmtorgsgatan 1, S-653 40 Karlstad (SE).

(74) Agent: **FURHEM, Hans**; Kvaerner Pulping AB, Box 1033, S-651 15 Karlstad (SE).

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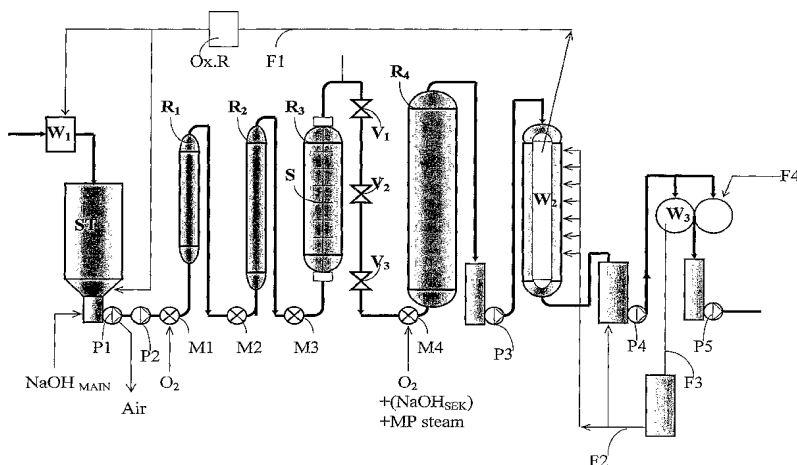
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(54) Title: A METHOD FOR OXYGEN DELIGNIFICATION OF CELLULOSE PULP AT HIGH PRESSURE IN SEVERAL STEPS



(57) Abstract: The invention relates to a method for the improved oxygen delignification of cellulose pulp with a medium consistency of 8-16 %. The fraction of dissolved oxygen can be maintained at a high level throughout the process by the use of high pressure, greater than 15.0 bar, and by repeated agitative mixing while maintaining the high pressure, such that as large a fraction as just over 20% of the total oxygen added is dissolved in the fluid phase, and such that the amount of oxygen in the fluid phase is maintained at a high level throughout the complete high pressure section. By the establishment of retention times between the remixing operations with successively increasing retention times, while retaining a high pressure, an optimal adaptation of the remixing is obtained at the time at which a certain fraction of the oxygen dissolved in the fluid phase has been consumed. This means that the amount of oxygen that is dissolved in the fluid phase and that penetrates the cellulose fibres can be maintained at an optimal high level throughout the process for improved delignification of the cellulose.

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